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Applicant : Jun-ichi Nezu et al.  
Serial No. : 09/521,195  
Filed : March 7, 2000

Art Unit : 1646  
Examiner : P. Mertz  
Confirmation No.: 9418

Office of Patent Publication  
Director's Office

Notice of Allowance Date: November 20, 2004

Title : TRANSPORTER POLYPEPTIDE AND METHOD OF PRODUCING SAME

Attention: Official Draftsman  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

TRANSMITTAL OF FORMAL DRAWINGS

In response to the Notice Regarding Drawings mailed March 10, 2004, please substitute the enclosed thirteen (13) sheets of formal drawings for the corresponding drawings presently in the application.

Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date:

May 7, 2004

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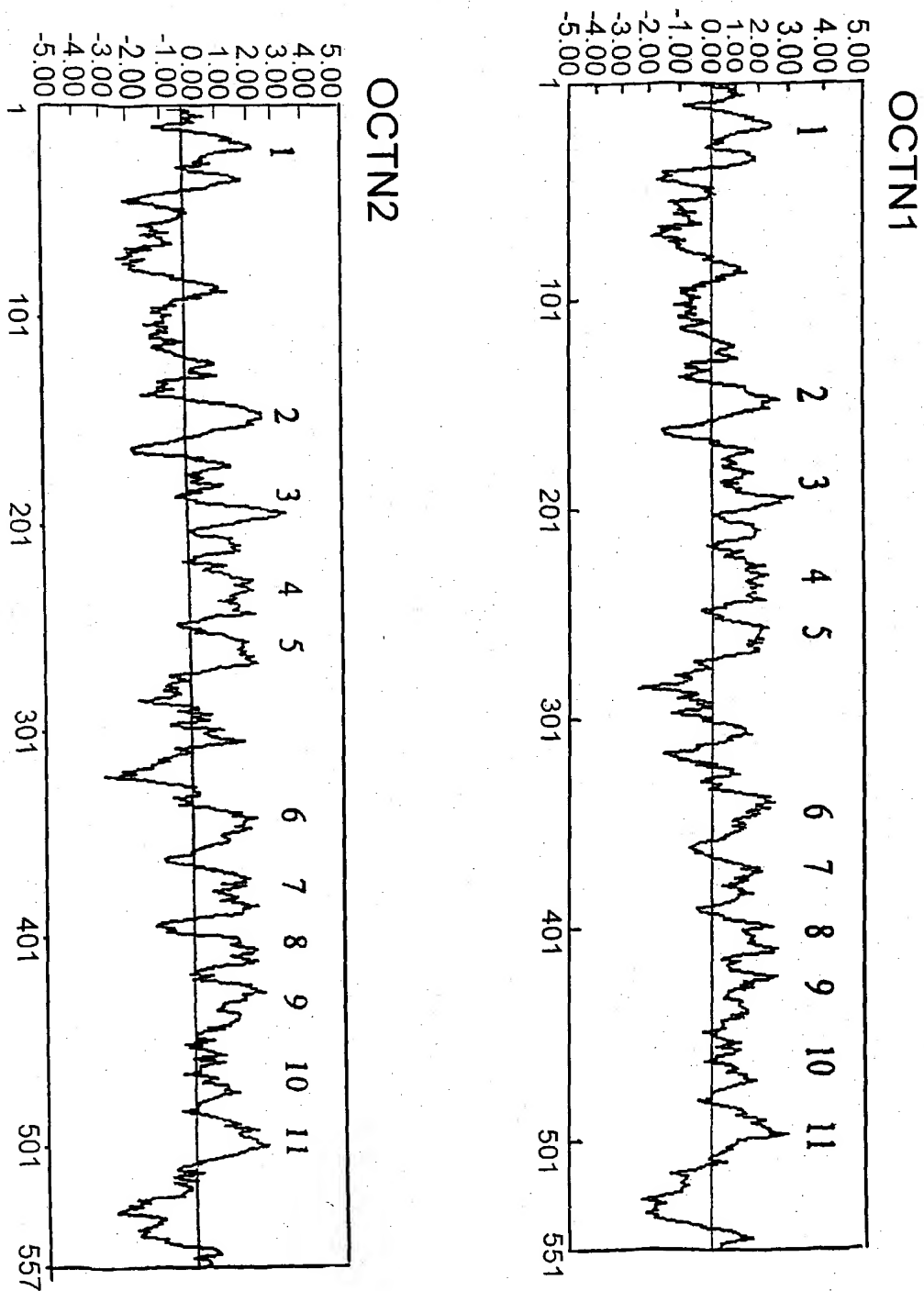
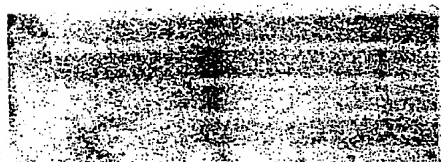
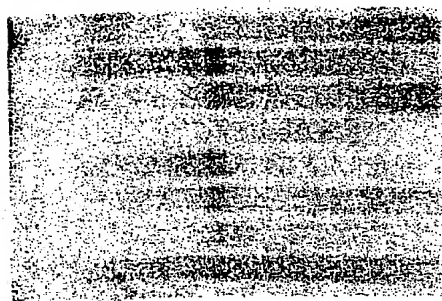


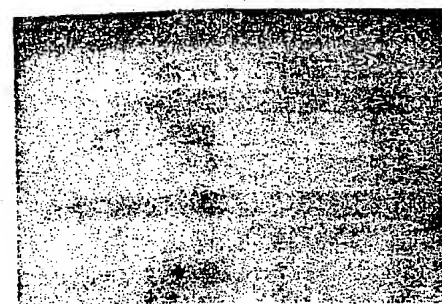
FIG. 2



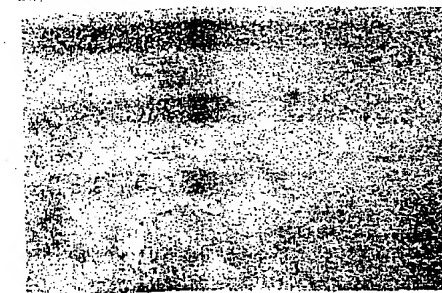
KIDNEY  
 LIVER  
 LUNG  
 BRAIN



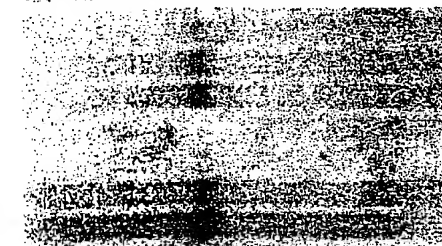
PANCREAS  
 KIDNEY  
 SKELETAL MUSCLE  
 LIVER  
 LUNG  
 PLACENTA  
 BRAIN  
 HEART



PERIPHERAL BLOOD LEUKOCYTE  
 COLON  
 SMALL INTESTINE  
 UTERUS  
 TESTIS  
 PROSTATE  
 THYMUS  
 SPLEEN



BONE MARROW  
 ADRENAL GLAND  
 TRACHEA  
 LYMPH NODE  
 SPINAL CORD  
 THYROID GLAND  
 STOMACH



MELANOMA G361  
 LUNG CANCER A549  
 LARGE INTESTINE ADENOCARCINOMA SW480  
 BURKITT'S LYMPHOMA RAJI  
 LYMPHOBLASTIC LEUKEMIA MOLT-4  
 CHRONIC MYELOCYTIC LEUKEMIA K-562  
 CERVICAL CARCINOMA HeLa S3  
 PROMYELOCYTIC LEUKEMIA HL-60

↑  
 2.5kb

HUMAN  
 FETAL TISSUES

HUMAN ADULT TISSUES

CELL LINES DERIVED  
 FROM HUMAN CANCER

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TRANSPORTER POLYPEPTIDE AND METHOD OF  
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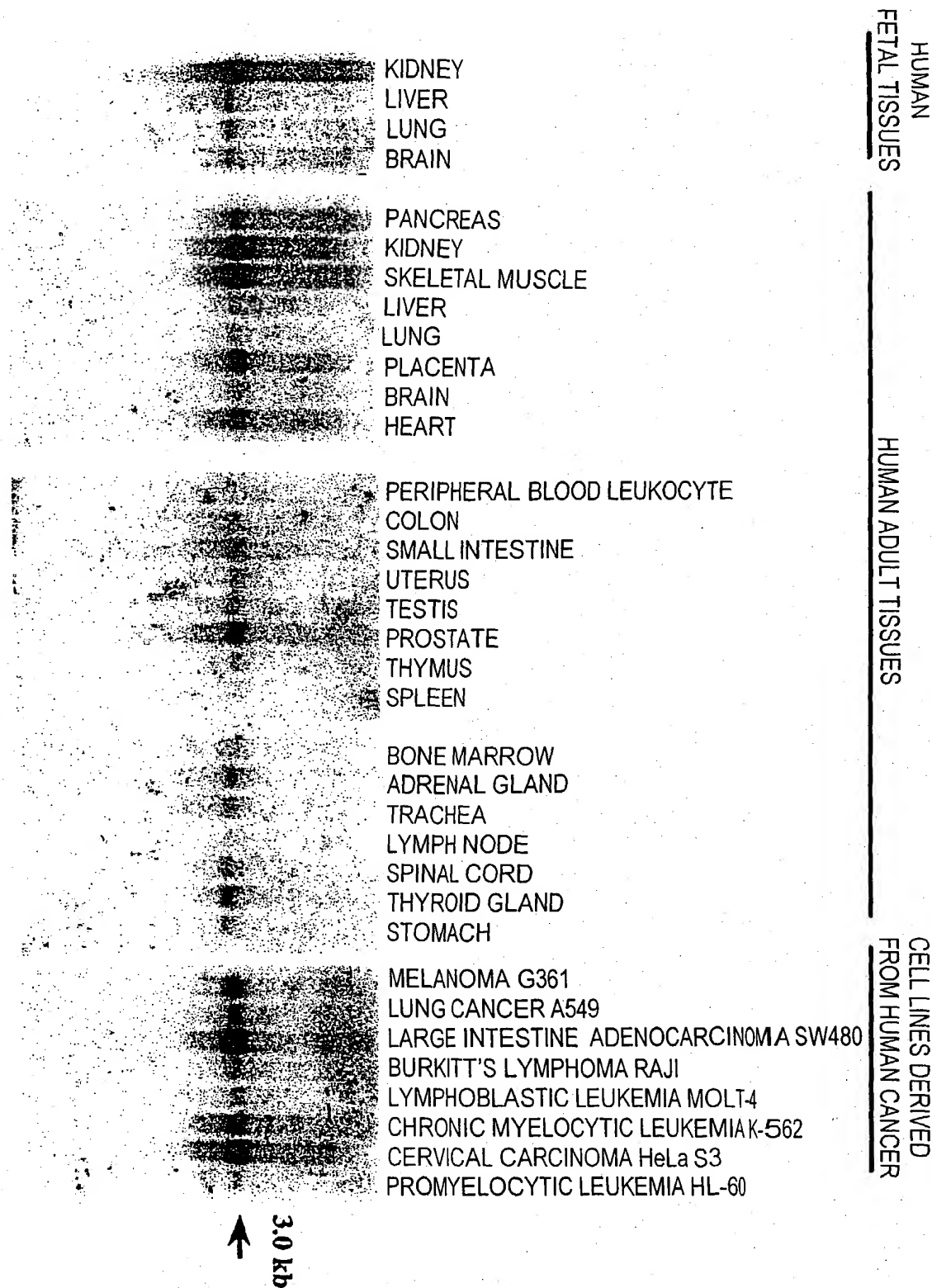
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OCTN2	1	MRDYDEMI	IAF	IGEMGF	FORI	IEELL	SASTI	PNGE	SSM	ELAGI	PEHRC	RVPDA	ANLSS	AMRN	SVPLR	LDGRE	VPHS	OSRYR	LATIA	NFSAL	GLEPG
OCTN1	101	RDYDLG	OLEQ	ESCLDGM	IES	ODVYLS	WVI	EMNL	VCEDM	KVPL	IIISLEH	VGVL	IGS	ENS	GOL	SDR	GRK	NVLE	PA	MA	NG
OCTN2	101	RDYDLG	OLEQ	ESCLDGM	IES	ODVYLS	WVI	EMNL	VCEDM	KVPL	IIISLEH	VGVL	IGS	ENS	GOL	SDR	GRK	NVLE	PA	MA	NG
OCTN1	201	WVGMGO	ISN	VWVAH	IEGTE	ILGKSV	RIIF	SLGVO	IEFA	VGVA	PLFA	VFIR	DMR	ML	LAL	PGVLC	ML	LM	FIPES	PRWL	ISOR
OCTN2	201	WVGMGO	ISN	VWVAH	IEGTE	ILGKSV	RIIF	SLGVO	IEFA	VGVA	PLFA	VFIR	DMR	ML	LAL	PGVLC	ML	LM	FIPES	PRWL	ISOR
OCTN1	301	AKMNTI	ANPA	VIFDS	-VEE	ENPL	KOOKAF	LLDL	RI	RNI	AIMT	MS	LL	MM	IS	VEYA	ESL	PA	NLHG	DAYL	NCFLSA
OCTN2	301	AKMNTI	ANPA	VIFDS	-VEE	ENPL	KOOKAF	LLDL	RI	RNI	AIMT	MS	LL	MM	IS	VEYA	ESL	PA	NLHG	DAYL	NCFLSA
OCTN1	399	WLI	AVLE	MG	GGVLE	HI	QLV	PVD	YF	BSIG	LV	GR	GI	JD	SA	FS	N	WFI	AE	YPI	VRN
OCTN2	399	WLI	AVLE	MG	GGVLE	HI	QLV	PVD	YF	BSIG	LV	GR	GI	JD	SA	FS	N	WFI	AE	YPI	VRN
OCTN1	401	WSM	AT	AL	ELG	GSVLE	FLV	PDL	Y	LV	ATV	LV	GR	GI	JD	SA	FS	N	WFI	AE	YPI
OCTN2	401	WSM	AT	AL	ELG	GSVLE	FLV	PDL	Y	LV	ATV	LV	GR	GI	JD	SA	FS	N	WFI	AE	YPI
OCTN1	499	LI	GL	FL	EP	ES	GL	PI	EP	LE	OM	K	RAF	RS	CK	-	-	IR	DS	ME	TE
OCTN2	499	LI	GL	FL	EP	ES	GL	PI	EP	LE	OM	K	RAF	RS	CK	-	-	IR	DS	ME	TE
OCTN1	501	LI	GL	FL	EP	ES	GL	PI	EP	LE	OM	K	RAF	RS	CK	-	-	IR	DS	ME	TE
OCTN2	501	LI	GL	FL	EP	ES	GL	PI	EP	LE	OM	K	RAF	RS	CK	-	-	IR	DS	ME	TE
OCTN1	551	LI	GL	FL	EP	ES	GL	PI	EP	LE	OM	K	RAF	RS	CK	-	-	IR	DS	ME	TE
OCTN2	551	LI	GL	FL	EP	ES	GL	PI	EP	LE	OM	K	RAF	RS	CK	-	-	IR	DS	ME	TE

FIG. 3

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TRANSPORTER POLYPEPTIDE AND METHOD OF  
PRODUCING SAME

FIG. 4



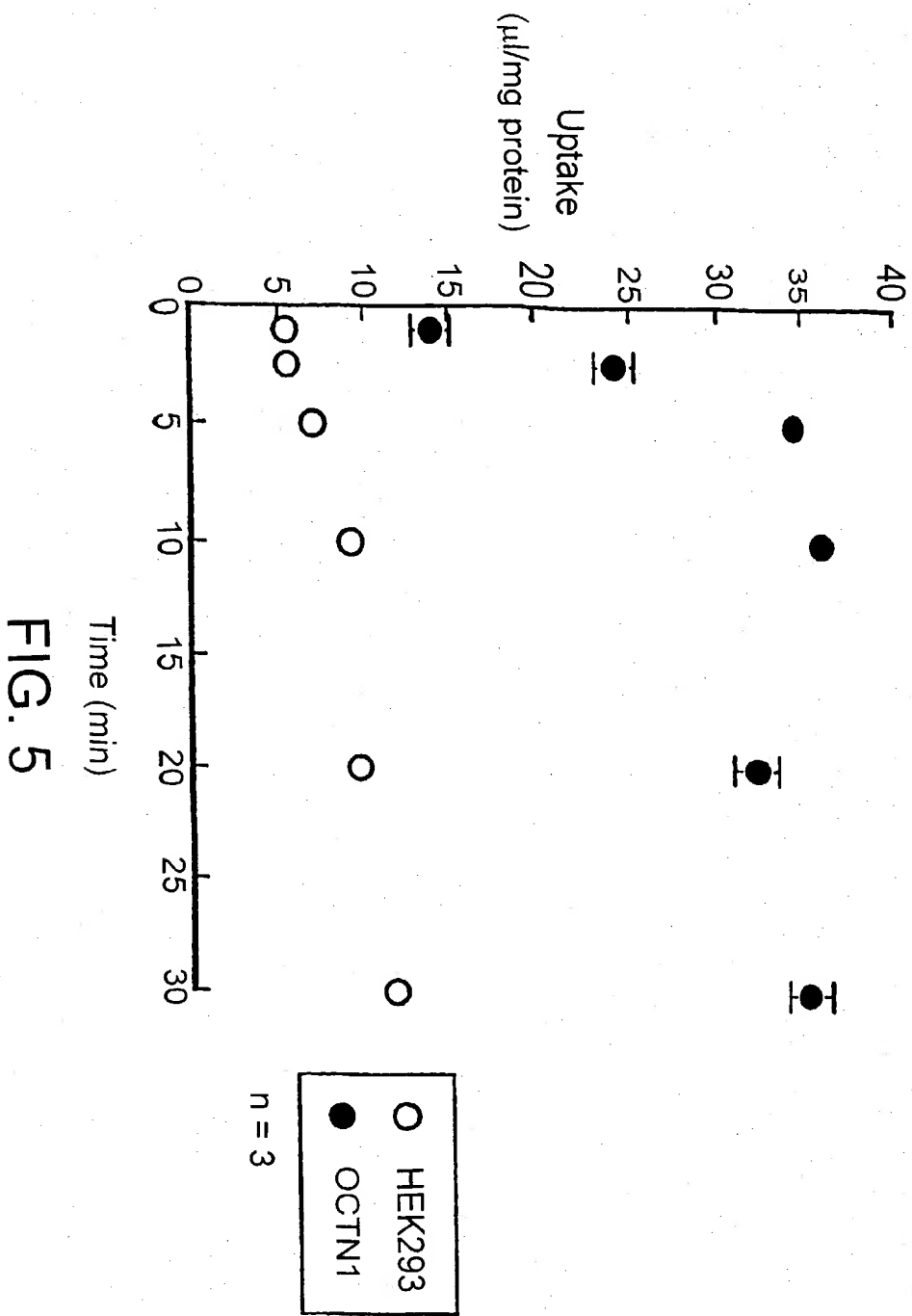


FIG. 5

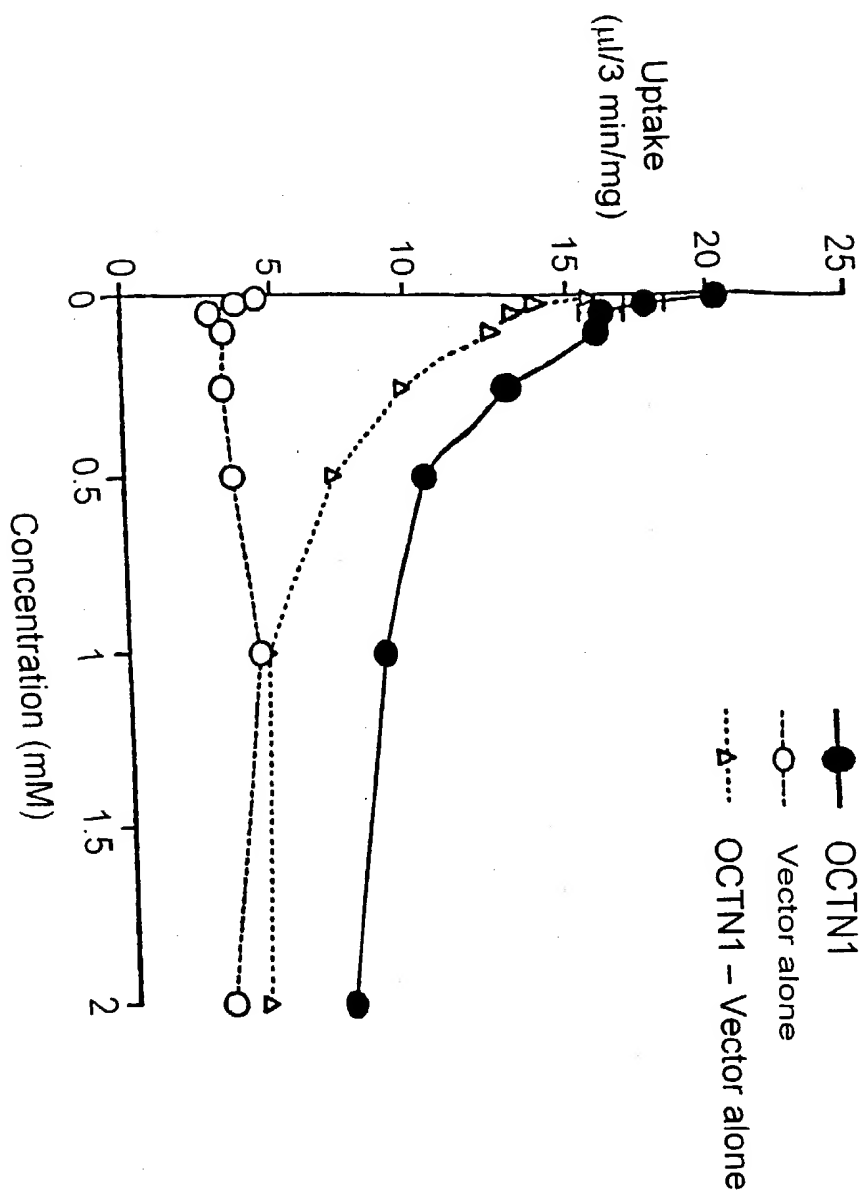


FIG. 6

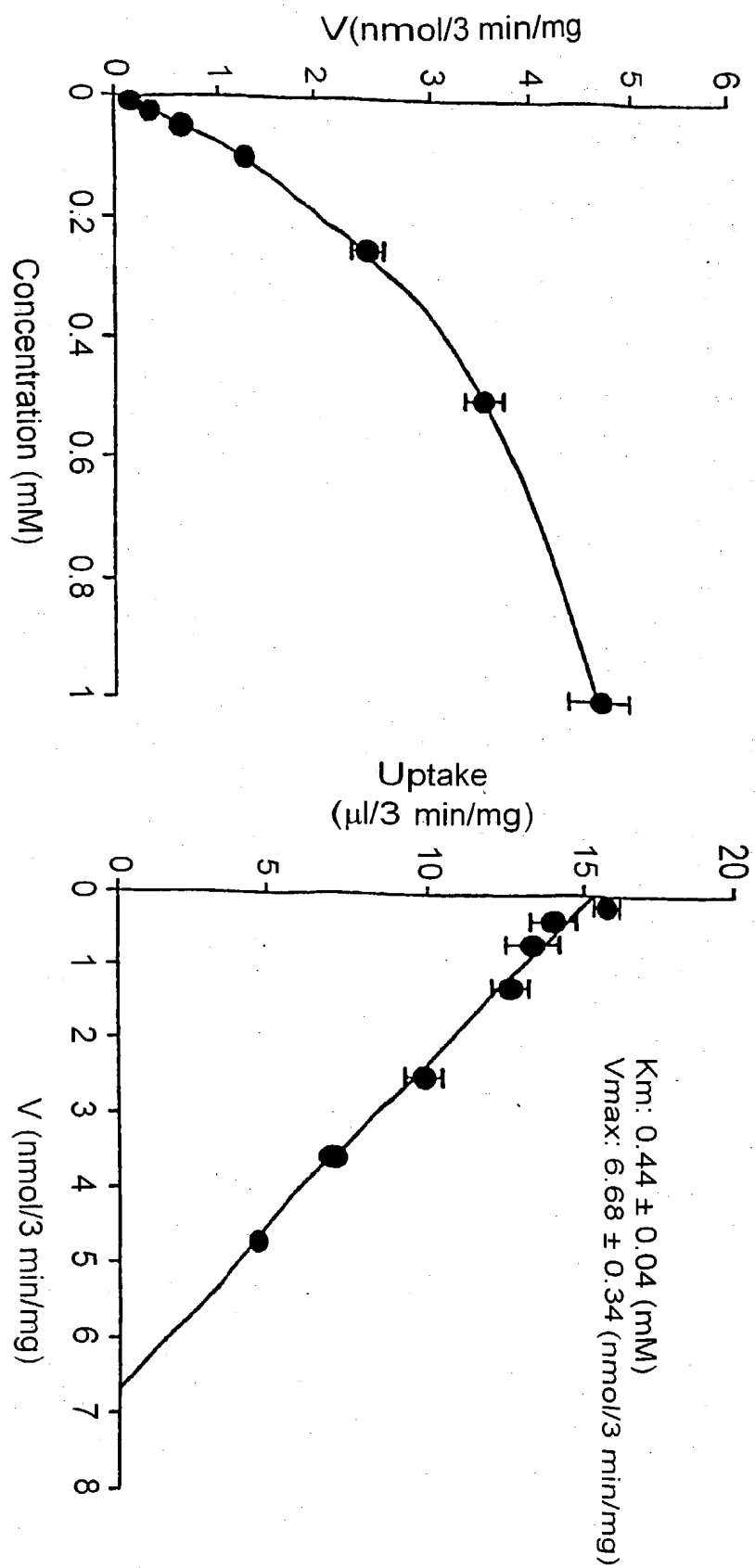


FIG. 7



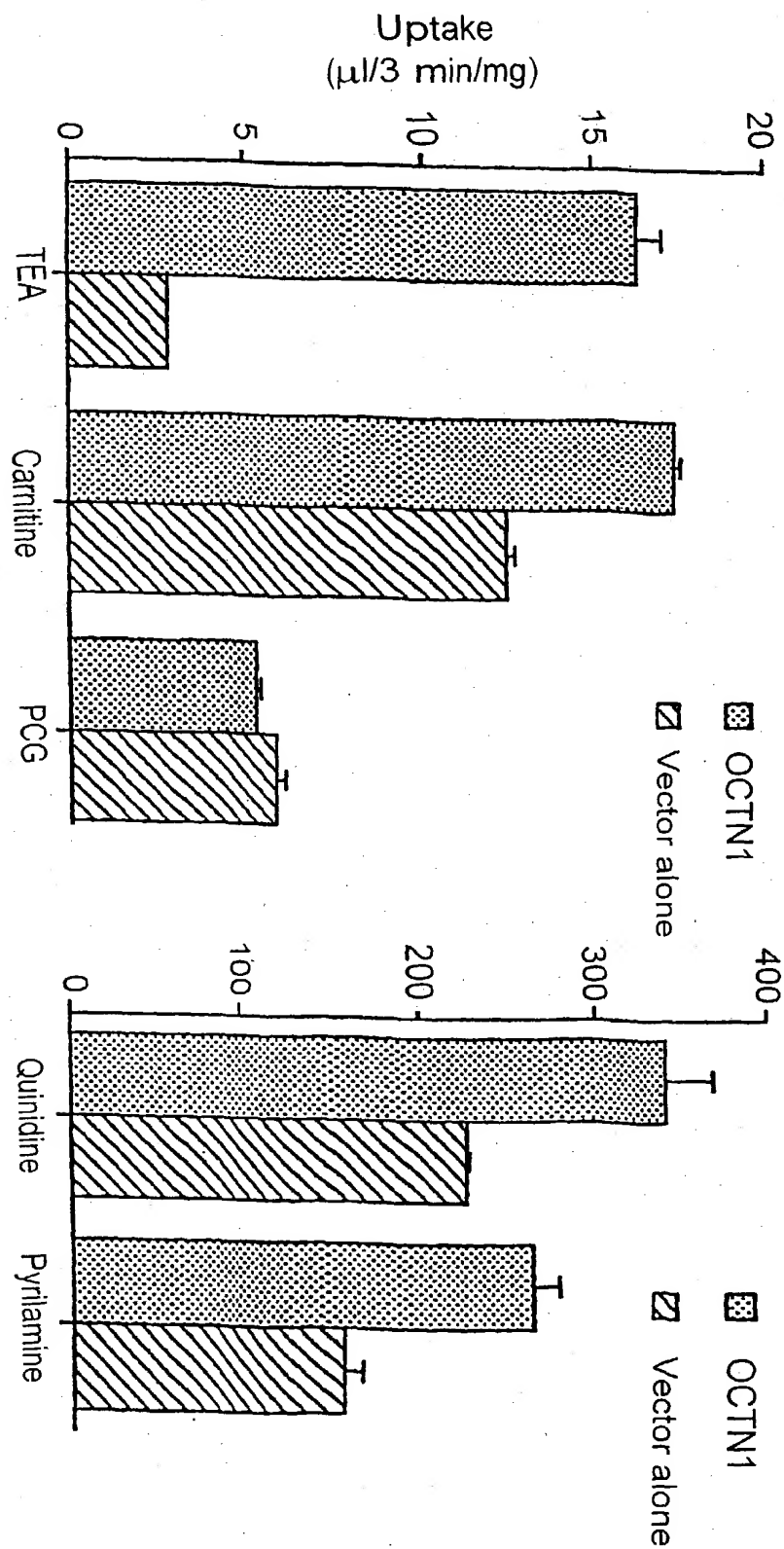


FIG. 8

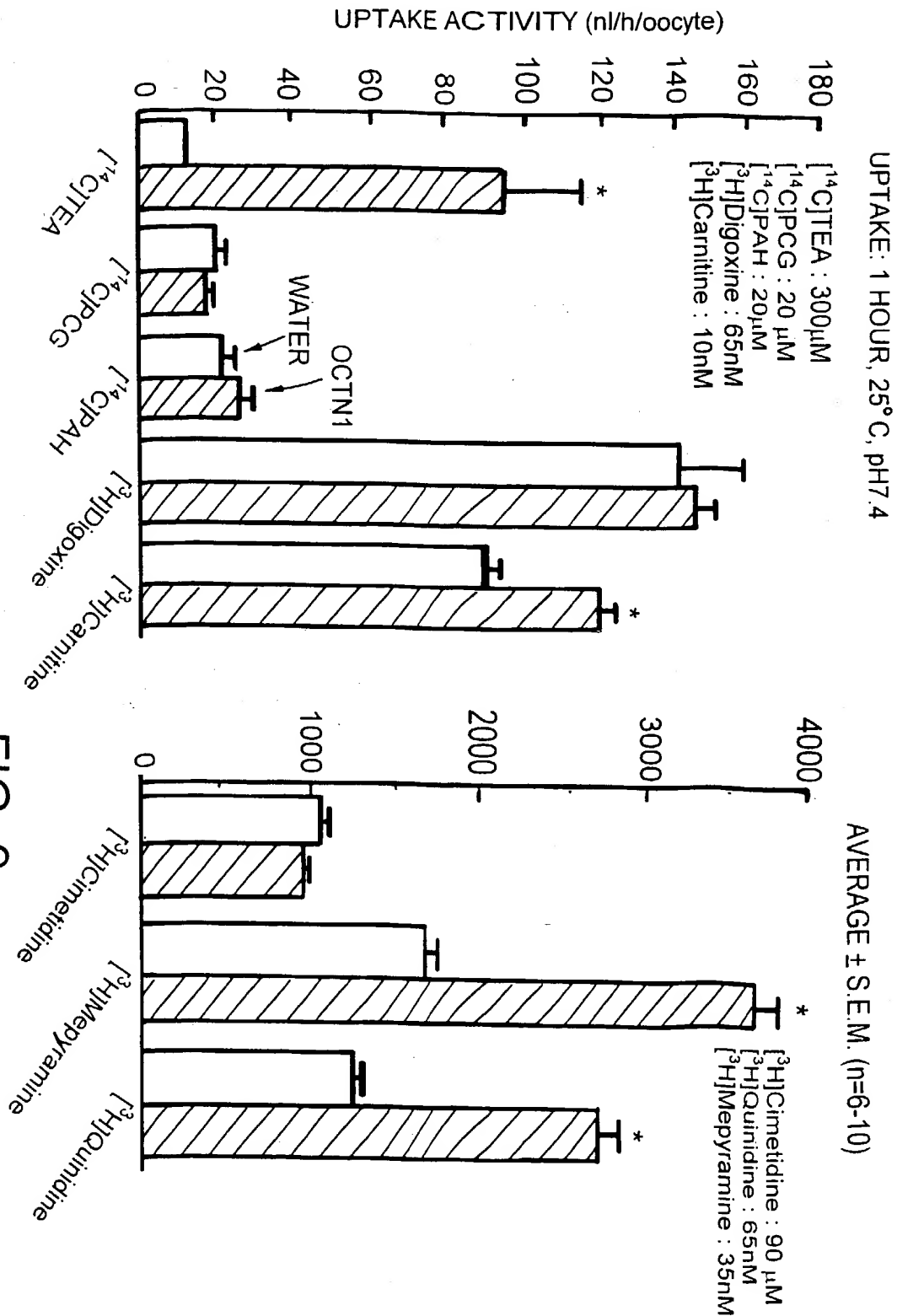


FIG. 9

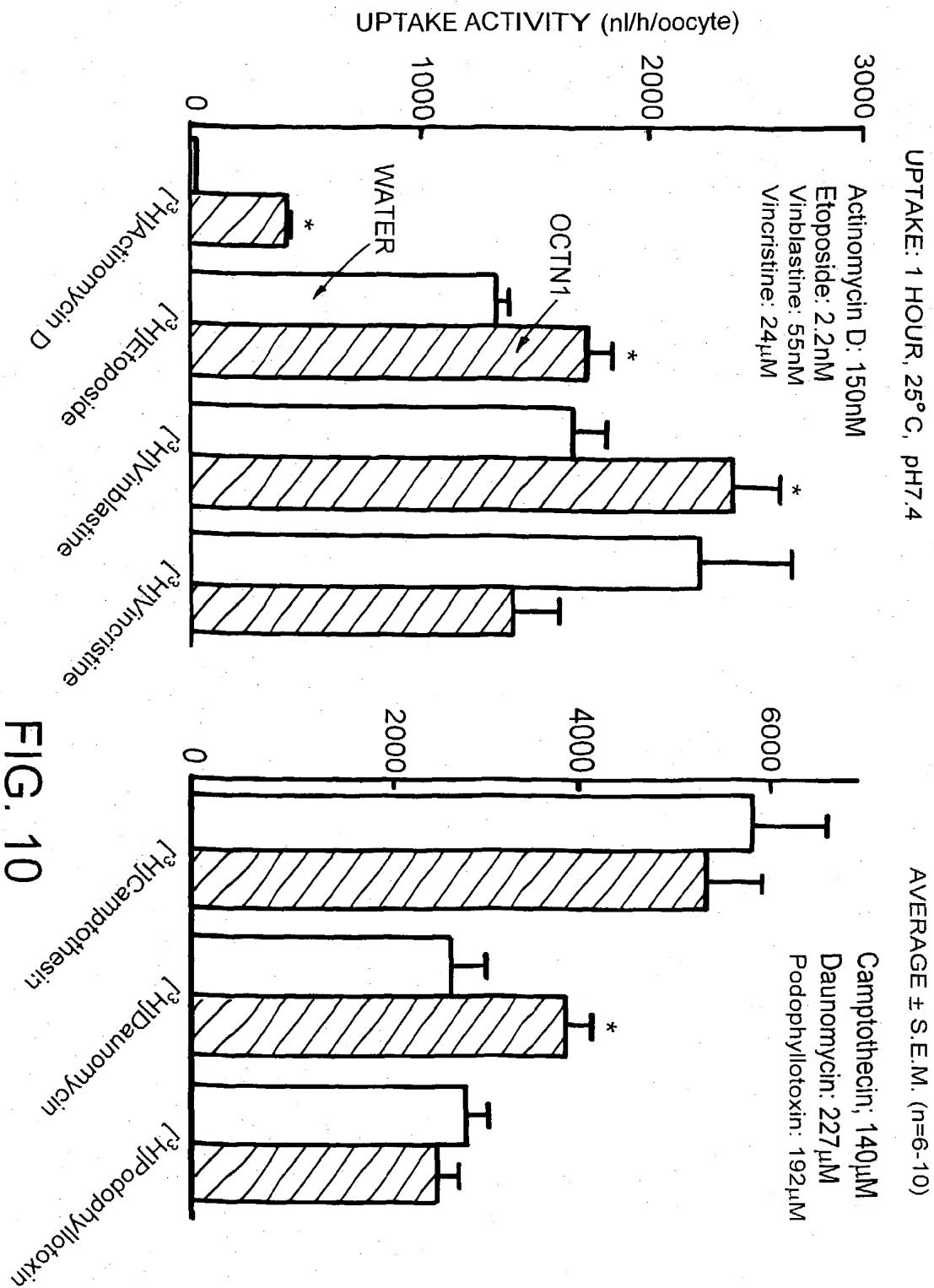
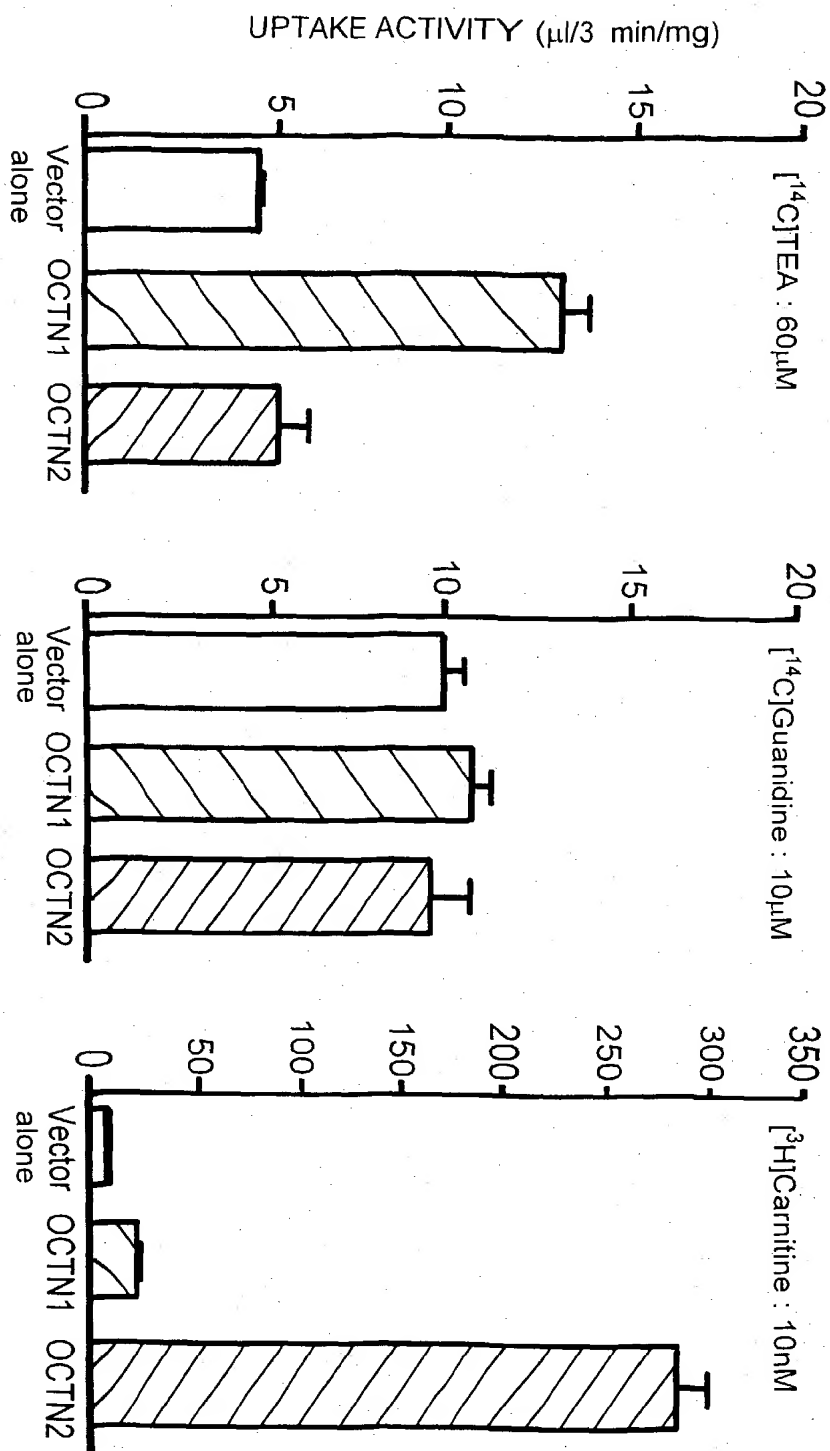


FIG. 10



Uptake: 3 min,  $37^\circ\text{C}$ , pH7.4

FIG. 11

Average  $\pm$  S.E.M. ( $n = 3$ )

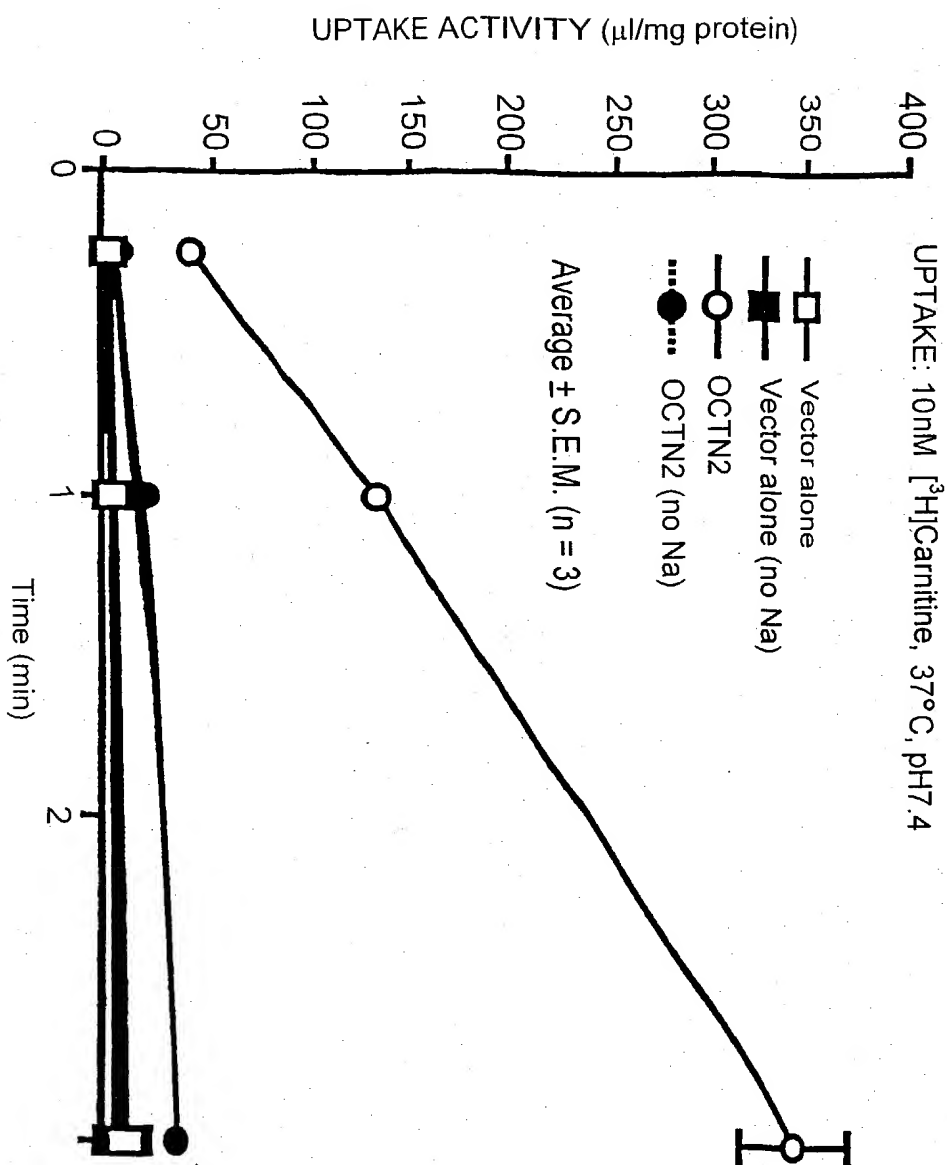


FIG. 12

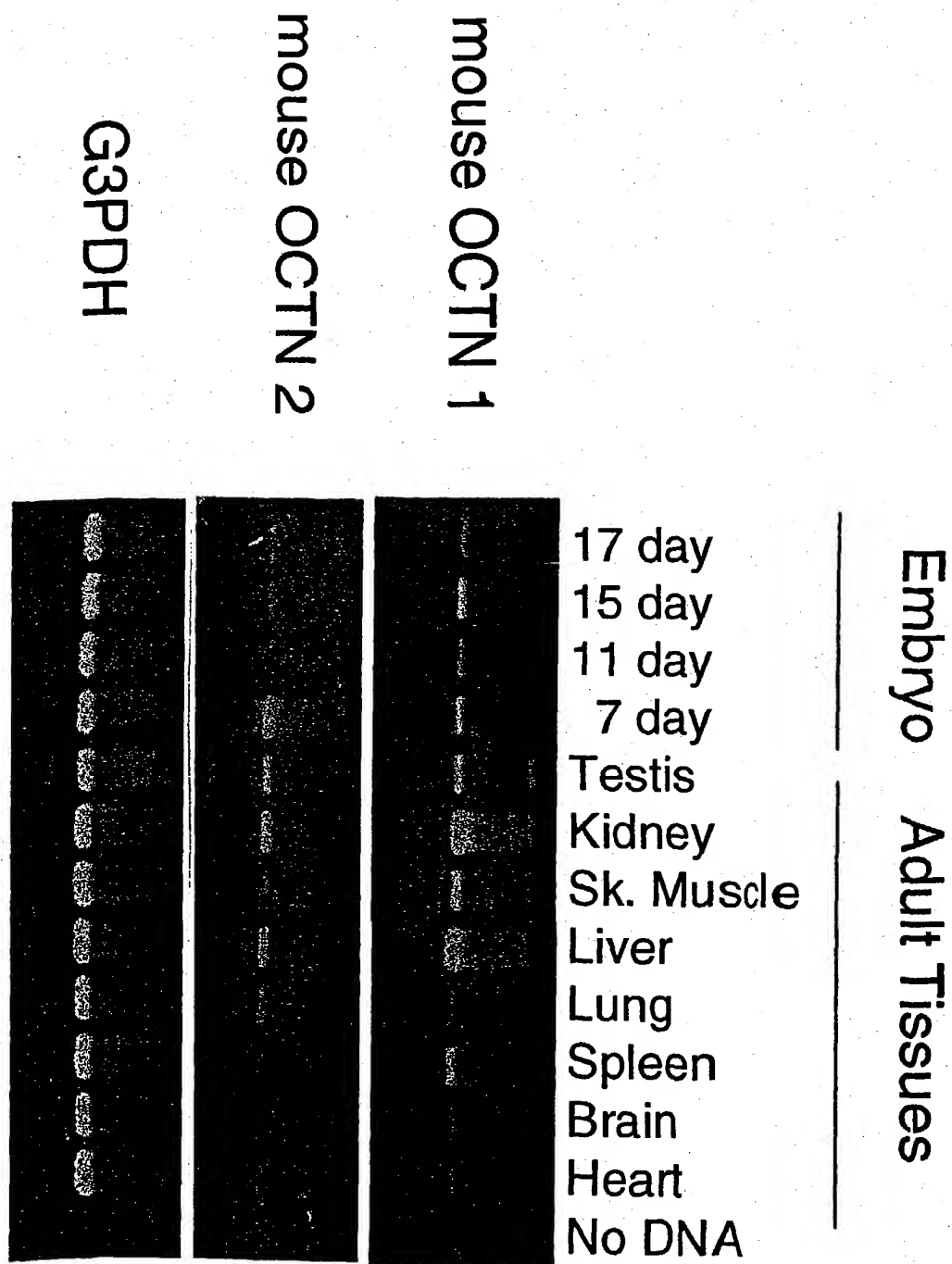


FIG. 13